High Current Power Inductor - CPCF2919 Series

Outline:
产品概要
- Assemblage design, sturdy structure. 组立式设计，结构坚固。
- High inductance, high current, low magnetic loss, low ESR, small parasitic capacitance. 高电感值, 大电流, 低磁损, 低阻抗, 寄生电容小。
- Flat wire winding, achieve a low D.C. Resistance. 扁平线绕组, 实现极低的直流电阻。
- Temperature rise current and saturation current is less influenced by environment. 温升电流及饱和电流受环境条件影响小。
- Operating temperature: -40°C ～ +125°C (Including coil's temperature rise) 工作温度: -40℃ ～ +125℃ (包含线圈发热)

1 Appearance and dimensions (mm)
外形尺寸

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Dimension A</th>
<th>Dimension B</th>
</tr>
</thead>
<tbody>
<tr>
<td>4R7 – 150</td>
<td>0.80</td>
<td>1.40</td>
</tr>
<tr>
<td>220 – 470</td>
<td>0.70</td>
<td>1.30</td>
</tr>
</tbody>
</table>

2 Marking
印字标识

3 Reference hole pattern (mm)
参考焊孔尺寸

4 Schematic
原理图
### High Current Power Inductor - CPCF2919 Series

#### 5 Electrical characteristics

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Inductance (μH) ±20% Typical</th>
<th>D.C.R. (mΩ) Typical</th>
<th>Saturation current (A) Typical</th>
<th>Temperature rise current (A) Typical</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPCF2919-4R7MC</td>
<td>4.70</td>
<td>2.76</td>
<td>3.60</td>
<td>60.0</td>
</tr>
<tr>
<td>CPCF2919-5R6MC</td>
<td>5.60</td>
<td>2.76</td>
<td>3.60</td>
<td>49.0</td>
</tr>
<tr>
<td>CPCF2919-6R8MC</td>
<td>6.80</td>
<td>2.76</td>
<td>3.60</td>
<td>46.0</td>
</tr>
<tr>
<td>CPCF2919-100MC</td>
<td>10.0</td>
<td>3.70</td>
<td>4.80</td>
<td>32.0</td>
</tr>
<tr>
<td>CPCF2919-150MC</td>
<td>15.0</td>
<td>3.70</td>
<td>4.80</td>
<td>23.0</td>
</tr>
<tr>
<td>CPCF2919-220MC</td>
<td>22.0</td>
<td>4.80</td>
<td>6.20</td>
<td>18.0</td>
</tr>
<tr>
<td>CPCF2919-330MC</td>
<td>33.0</td>
<td>4.80</td>
<td>6.20</td>
<td>13.0</td>
</tr>
<tr>
<td>CPCF2919-470MC</td>
<td>47.0</td>
<td>4.80</td>
<td>6.20</td>
<td>9.00</td>
</tr>
</tbody>
</table>

— All data is tested based on 25°C ambient temperature.

- **1** Inductance measure condition at 100kHz, 0.1V.
- **2** Saturation current：the actual value of DC current when the inductance decrease 20% of its initial value.
- **3** Temperature rise current：the actual value of DC current when the temperature rise is ΔT40°C(Ta=25°C).

**Special remind**: Circuit design, component placement, PWB size and thickness, cooling system and etc. will affect the product temperature. Please verify the product temperature in the final application. Please verify the product temperature in the final application.

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High Current Power Inductor
-CPCF2919 Series

6 Saturation current VS temperature rise current curve
饱和电流 VS 温升电流曲线

![Graphs of CPCF2919 series with various inductance values.](image-url)
7 Packing specification
包装规格
7.1 Plastic tray dimensions (mm)
吸塑盘尺寸

![Diagram of plastic tray dimensions](image)
High Current Power Inductor
-CPCF2919 Series

7.2 Packing
包装

7.3 Carton dimensions and packing quantity
包装箱尺寸和包装数量

<table>
<thead>
<tr>
<th>Product Series</th>
<th>Quantity / Tray</th>
<th>Quantity / Bundle</th>
<th>Out Carton Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPCF2919</td>
<td>30pcs</td>
<td>(30×9) = 270pcs</td>
<td>(270×1) = 270pcs</td>
</tr>
</tbody>
</table>

7.4 Label making
标签标识

The following items will be marked on the tray of product label and shipping label.
以下项目将明确标识于产品吸塑盘标签以及运输标签上。

**Production Label**
产品标签
- Part No.
- Electrical Information
- Quantity
- Packing No.

**Shipping Label**
运输标签
- Customer Name
- Customer Part No.
- Supplier Part No.
- Supplier Name
- Country of origin

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